

BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **721292**

Audit Date: **5/4/2016**

Audited By: **M. Hies**

Flow Audits			
Flow Reference Standard Used:	Model: Delta Cal DCI	Serial No: 146294	Calibration Date: 3-15-2016
Temperature Standard Used:	Model: Delta Cal DCI	Serial No: 146294	Calibration Date: 1-15-2016
Barometric Pressure Standard Used:	Model: Delta Cal DCI	Serial No: 146294	Calibration Date: 1-15-2016

Leak Check Value:	as found:	0.4 lpm	as left:	0.4 lpm
Ambient Temperature:	as found:	15.9 C	as left:	16.1 C
Barometric Pressure:	as found:	743 mmHg	as left:	740 mmHg
Flow Rate (Actual Volumetric):	as found:	16.7 lpm	as left:	16.72 lpm
Flow Rate (EPA Standard):	as found:	slpm	as left:	slpm

Mechanical Audits											
Pump muffler unclogged:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM10 particle trap clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>
Sample nozzle clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM10 drip jar empty:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>
Tape support vane clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM10 bug screen clear:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>
Capstan shaft clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	PM2.5 particle trap clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
Rubber pinch rollers clean:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	Inlet tube water-tight seal OK:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>		
Chassis ground wire installed:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>	Inlet tube perpendicular to BAM:	as found	<input checked="" type="checkbox"/>	as left	<input checked="" type="checkbox"/>		

Analog Voltage Output Audit			N/A	<input checked="" type="checkbox"/>
DAC Test Screen	BAM Voltage Output	Logger Voltage Input		
0.000 Volts	Volts	Volts		
0.500 Volts	Volts	Volts		
1.000 Volts	Volts	Volts		

Membrane Audit	
LAST m (mg):	
ABS (mg):	
Difference (mg):	
% Difference:	

Flow Control Range	
Flow Setpoint	BAM Flow
15.0 LPM	15.87
16.7 LPM	16.72
18.4 LPM	18.43

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock Time/Date			FLOW TYPE			AP		
RS232 baud			Cv			FRI		
STATION #			Qo			FRh		
RANGE			ABS			Password		
BAM SAMPLE			μ sw			Cycle Mode		
MET SAMPLE			K Factor			RH Control		
OFFSET			BKGD			RH Setpoint		
CONC UNITS			STD TEMP			Datalog RH		
COUNT TIME			HEATER			Delta-T Control		
FLOW RATE			e1			Delta-T Setpoint		
CONC TYPE			Errors			Datalog Delta-T		

Last 6 Errors in BAM-1020 Error Log					
Error	Date	Time	Error	Date	Time
1 M	4-1-2016	14:00	4		
2			5		
3			6		

Audit Notes: **Filter tape replaced, nozzle/vane cleaned, leak check, Flow audit, capstan shaft/rollers cleaned, Inlet trap cleaned, data downloaded, clock checked, tape self-test passed.**